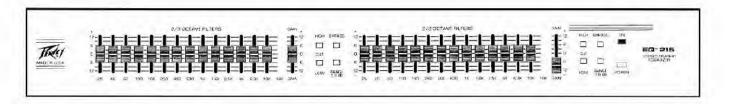
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OPERATING GUIDE



TENE!

### FRONT PANEL



#### **EQUALIZER SECTION**

Two 15-band 2/3 octave filter sets with dual range capability. The filters are constant "Q" devices located at standard ISO center frequencies. Effective equalization range is from 25 Hz to 16 kHz per channel. Normal operation is 12 dB cut or boost (see Range switch).

### **OPERATION NOTE**

This equalizer is designed to provide room equalization, feedback control and system tone control. No amount of equalization will correct an acoustically bad room/mic/speaker arrangement or completely correct the response curve of a poor loudspeaker.

Always begin with all sliders in the "0" position and avoid excessively cutting large segments of the audio passband, which would limit the system's dynamic range.

Exercise caution when attempting to boost equalization below cut-off of speaker system. Typical sound reinforcement enclosures are not designed for 20 Hz performance and transducer damage could result.

#### GAIN

Calibrated control for regulating overall gain of the equalizer section. Unity gain throughout the signal chain may be maintained by recovering lost signal at this point. Example: Assume the equalization process has introduced a signal loss of -6dB by negative (-) adjustment of the EQ section. The gain should then be adjusted to +6 to maintain unity gain through the equalizer.

### LOW CUT

Provides high pass filtering at two preset frequencies, 12 Hz in the "out" position, 40 Hz in the "in" position. Low frequency roll off is at 12 dB per octave.

### HIGH CUT

Provides low pass filtering at two preset frequencies, 30 kHz in the "out" position, 16 kHz in the "in" position. High frequency roll off is at 12 dB per octave.

### **EQ BYPASS**

In bypass mode, the input signal is routed directly to the output and is unaffected by all front panel controls except the low cut and high cut filters.

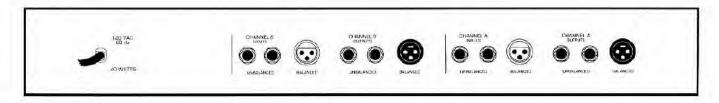
## RANGE (+/-6 dB / +/-12 dB)

Selects the amount of cut or boost available with equalizer section. Switch position (out) provides +/-12 dB range. Switch position (in) provides +/-6 dB operation.

### POWER SWITCH

Depress the switch to the "On" position. The red pilot light (LED) will illuminate indicating power is being supplied to the unit.

### **REAR PANEL**



### INPUT (Balanced)

A three-pin female XLR jack is provided for electronically balanced input termination.

### INPUT (Unbalanced)

Two ¼" ring-tip-sleeve (stereo) jacks provide balanced inputs when used with stereo (RTS) ¼" plugs and 2-conductor shielded cables. When used with a mono ¼" phone plug, the input is unbalanced.

#### **OPERATION NOTE**

Using either of the two ¼" inputs with a mono phone plug unbalances the other ½" input and the XLR input. When one of these inputs is used as a "y-out" to an unbalanced input on another piece of equipment, all the inputs become unbalanced.

**OUTPUT** (Balanced)

This electronically balanced, male XLR output provides line-balancing to other pieces of audio equipment (power amps, etc.). Balanced output is recommended for rejection of hum, noise and outside interference.

### OUTPUT (Unbalanced)

Two paralled 1/4" phone jacks are provided for unbalanced output termination.

### LINE CORD

(120V products only)

For your safety, we have incorporated a 3-wire line (mains) cable with proper grounding facilities. It is not advisable to remove the ground pin under any circumstances. If it is necessary to use the equipment without proper grounding facilities, suitable grounding adaptors should be used. Less noise and greatly reduced shock hazard exists when the unit is operated with the proper grounded receptacles.

### **EQ-215 SPECIFICATIONS**

All specifications are typical unless otherwise noted. 0dBV= 1 Volt.

All specifications are referenced to nominal output level (0dBV) unless otherwise noted.

All measurements are wideband 20 Hz to 20 kHz unless otherwise stated.

NOTE: All specs measured at 1V RMS input and unbalanced output. All sliders at mid position, all switches out unless otherwise noted.

### Frequency Response:

+/-1dB 20 Hz - 20 kHz

### Distortion:

.003% 20 Hz - 20 kHz

### Common Mode Rejection Ratio (CMRR)

36db Typical

### Input Impedance:

Unbalanced: 20K Ohms

Balanced: 20K Ohms (Equal impedances to ground)

### Output Impedance:

Unbalanced: 100 Ohms Balanced: 100 Ohms

### Maximum Input Level:

Unbalanced: +24dBV (15.8 VRMS) Balanced: +24dBV (15.8 VRMS)

## Maximum Output Level:

Unbalanced: +18dBV (8 VRMS) Balanced: +24dBV (15.8 VRMS)

## Nominal Input Level:

Unbalanced: 0dBV (1 VRMS) Balanced: 0dBV (1 VRMS)

### Nominal Output Level:

Unbalanced: 0dBV (1 VRMS) Balanced: +6dBV (2 VRMS)

### Input Headroom:

Nominal = 24 dB

### Output Headroom:

Unbalanced: 18dB Balanced: 18dB

### Output Noise: Unbalanced Output

EQ Out: -98dBv EQ In, all Flat: -96.5dBv

## Filter Bandwidth:

2/3 Octave

### Filter Frequencies:

25,40,63,100,160,250,400,630,1K,1.6K,2.5K,4K,6.3K,10K, and 16kHz

### Filter Q:

2.36

### Maximum Boost & Cut Filters:

+/- 12 dB (+/-12 dB Position) +/- 6 dB (+/-6 dB Position)

### Maximum Boost & Cut Gain: (WideBand Gain)

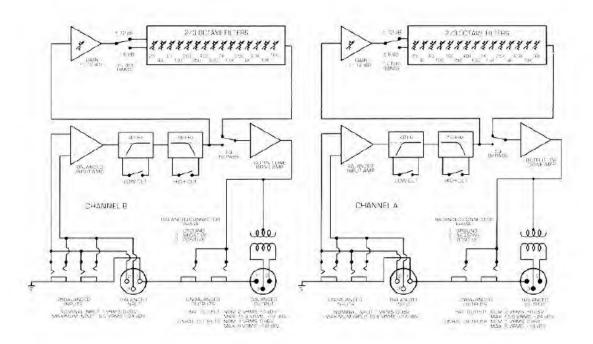
+/- 12 dB (+/-12 dB Position) +/- 12 dB (+/-6 dB Position)

# High Cut Filter: 12 dB Per Octave

Out: 30 kHz In: 16kHz

### Low Cut Filter: 12 dB Per Octave

Out: 12 Hz In: 40Hz



# **BLOCK DIAGRAM**

This block diagram shows the signal path within the unit. In order to thoroughly understand the unit's functions please study the block diagram carefully.

THIS LIMITED WARRANTY VALID ONLY WHEN PURCHASED AND REGISTERED IN THE UNITED STATES OR CANADA, ALL EXPORTED PRODUCTS ARE SUBJECT TO WARRANTY AND SERVICES TO BE SPECIFIED AND PROVIDED BY THE AUTHORIZED DISTRIBUTOR FOR EACH COUNTRY. Ces clauses de garantie ne sont vaiables qu'aux Etats-Unis et au Canada. Dans tour les autres pays, les clauses de garantie et de maintenance sont fixees par le distributeur national et assuree par lul seion la legislation envigueur.

Diese Garantie ist nur in den USA and Kanada gultig. Alle Export-Produkte sind der Garantie und dem Service des Importeurs des jewelligen Landes unterworfen. Esta garantía es valida solamente cuando el producto es comprado en E.U. continentales o en Canada. Todos los productos que sean comprados en el extranjero, estan sujetos a las garantias y servicio que cada distribuidor autorizado determine y ofrezca en los diferentes países.

### PEAVEY ONE-YEAR LIMITED WARRANTY/REMEDY

PEAVEY ELECTRONICS CORPORATION ("PEAVEY") warrants this product, EXCEPT for covers, footswitches, patchcords, tubes and meters, to be free from defects in material and workmanship for a period of one (1) year from date of purchase, PROVIDED, however, that this limited warranty is extended only to the original retail purchaser and is subject to the conditions, exclusions, and limitations hereinafter set forth:

#### PEAVEY 90-DAY LIMITED WARRANTY ON TUBES AND METERS

If this product contains tubes or meters, Peavey warrants the tubes or meters contained in the product to be free from detects in material and workmanship for a period of ninety (90) days from date of purchase; PROVIDED, however, that this limited warranty is extended only to the original retail purchaser and is also subject to the conditions, exclusions, and limitations hereinafter set forth

#### CONDITIONS, EXCLUSIONS, AND LIMITATIONS OF LIMITED WARRANTIES

These limited warranties shall be void and of no effect, if:

- a. The first purchase of the product is for the purpose of resale; or
- b. The original retail purchase is not made from an AUTHORIZED PEAVEY DEALER; or
- The product has been damaged by accident or unreasonable use, neglect, improper service or maintenance, or other causes not arising out of defects in material or workmanship; or
- d. The serial number affixed to the product is altered, defaced, or removed.
- In the event of a defect in material and/or workmanship covered by this limited warranty, Peavey will:
- a. In the case of tubes or meters, replace the defective component without charge.
- b. In other covered cases (i.e., cases involving anything other than covers, footswitches, patchcords, tubes or meters), repair the defect in material or workmanship or replace the product, at Peayey's option; and provided, however, that, in any case, all costs of shipping, if necessary, are paid by you, the purchaser.

THE WARRANTY REGISTRATION CARD SHOULD BE ACCURATELY COMPLETED AND MAILED TO AND RECEIVED BY PEAVEY WITHIN FOURTEEN (14) DAYS FROM THE DATE OF YOUR PURCHASE.

- In order to obtain service under these warranties, you must:
  a. Bring the defective item to any PEAVEY AUTHORIZED DEALER or AUTHORIZED PEAVEY SERVICE CENTER and present therewith the ORIGINAL PROOF OF PURCHASE supplied to you by the AUTHORIZED PEAVEY DEALER in connection with your purchase from him of this product. If the DEALER or SERVICE CENTER is unable to provide the necessary warranty service you will be directed to the nearest other PEAVEY AUTHORIZED DEALER or AUTHORIZED PEAVEY SERVICE CENTER which can provide such service.
- b. Ship the defective item, prepaid, to:

PEAVEY ELECTRONICS CORPORATION

International Service Center 326 Hwy. 11 & 80 East MERIDIAN, MS 39301

including therewith a complete, detailed description of the problem, together with a legible copy of the original PROOF OF PURCHASE and a complete return address. Upon Peavey's receipt of these items:

If the defect is remedial under these limited warranties and the other terms and conditions expressed herein have been complied with, Peavey will provide the necessary warranty service to repair or replace the product and will return it, FREIGHT COLLECT, to you, the purchaser.

Peavey's liability to the purchaser for damages from any cause whatsoever and regardless of the form of action, including negligence, is limited to the actual damages up to the greater of \$500.00 or an amount equal to the purchase price of the product that caused the damage or that is the subject of or is directly related to the cause of action. Such purchase price will be that in effect for the specific product when the cause of action arose. This limitation of liability will not apply to claims for personal injury or damage to real property or tangible personal property allegecly caused by Peavey's negligence. Peavey does not assume liability for personal injury or properly damage arising out of or caused by a non-Peavey alteration or attachment, nor does Peavey assume any responsibility for damage to interconnected non-Peavey equipment that may result from the normal functioning and maintenance of the Peavey equipment

UNDER NO CIRCUMSTANCES WILL PEAVEY BE LIABLE FOR ANY LOST PROFITS, LOST SAVINGS, ANY INCIDENTAL DAMAGES, OR ANY CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

THESE LIMITED WARRANTIES ARE IN LIEU OF ANY AND ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE; PROVIDED, HOWEVER, THAT IF THE OTHER TERMS AND CONDITIONS NECESSARY TO THE EXISTENCE OF THE EXPRESSED, LIMITED WARRANTIES, AS HEREINABOVE STATED, HAVE BEEN COMPLIED WITH, IMPLIED WARRANTIES ARE NOT DISCLAIMED DURING THE APPLICABLE ONE-YEAR OR NINETY-DAY PERIOD FROM DATE OF PURCHASE OF THIS PRODUCT.

SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THESE LIMITED WARRANTIES GIVE YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.

THESE LIMITED WARRANTIES ARE THE ONLY EXPRESSED WARRANTIES ON THIS PRODUCT, AND NO OTHER STATEMENT, REPRESENTATION, WARRANTY, OR AGREEMENT BY ANY PERSON SHALL BE VALID OR BINDING UPON PEAVEY.

In the event of any modification or disclaimer of expressed or implied warranties, or any limitation of remedies, contained herein conflicts with applicable law, then such modification, disclaimer or limitation, as the case may be, shall be deemed to be modified to the extent necessary to comply with such law.

Your remedies for breach of these warranties are limited to those remedies provided herein and Peavey Electronics Corporation gives this limited warranty only with respect to equipment purchased in the United States of America.

### INSTRUCTIONS - WARRANTY REGISTRATION CARD

1. Mail the completed WARRANTY REGISTRATION CARD to:

PEAVEY ELECTRONICS CORPORATION POST OFFICE BOX 2898 MERIDIAN, MISSISSIPPI 39302-2898

- a. Keep the PROOF OF PURCHASE. In the event warranty service is required during the warranty period, you will need this document. There will be no identification card issued by Peavey Electronics Corporation.
- 2. IMPORTANCE OF WARRANTY REGISTRATION CARDS AND NOTIFICATION OF CHANGES OF ADDRESSES:
  - a. Completion and mailing of WARRANTY REGISTRATION CARDS Should notification become necessary for any condition that may require correction, the REGISTRATION CARD will help ensure that you are contacted and properly notified.
  - b. Notice of address changes If you move from the address shown on the WARRANTY REGISTRATION CARD, you should notify Peavey of the change of address so as to facilitate your receipt of any bulletins or other forms of notification which may become necessary in connection with any condition that may require dissemination of information or correction.
- 3. You may contact Peavey directly by telephoning (601) 483-5365.

#### DANGER

EXPOSURE TO EXTREMELY HIGH NOISE LEVELS MAY CAUSE A PERMANENT HEARING LOSS INDIVIDUALS VARY CONSIDERABLY IN SUSCEPTIBILITY TO NOISE INDUCED HEARING LOSS, BUT NEARLY EVERYONE WILL LOSE SOME HEARING IF EXPOSED TO SUFFICIENT INTENSE NOISE FOR A SUFFICIENT TIME
THE U.S. GOVERNMENT'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) HAS SPECIFIED THE FOLLOWING PERMISSIBLE NOISE LEVEL EXPOSURES
DUBATION HER DAY IN HOURS
SOUND LEVEL BAY, SLOW RESPONSE

ACCORDING TO OSHA, ANY EXPOSURE IN EXCESS OF THE ABOVE PERMISSIBLE LIMITS COULD RESULT IN SOME HEARING LOSS

EAR PLUGS OR PROTECTORS IN THE EAR CANALS OR OVER THE EARS MUST BE WORN WHEN OPERATING THIS AMPLIFICATION SYSTEM IN ORDER TO PREVENT A PERMANENT HEARING LOSS IF EXPOSURE IS IN EXCESS OF THE LIMITS AS SET FORTH ABOVE. TO INSURE AGAINST POTENTIALLY DANGEROUS EXPOSURE TO HIGH SOUND PRESSURE LEVELS. IT IS RECOMMENDED THAT ALL PERSONS EXPOSED TO DOUBLE TO HIGH SOUND PRESSURE LEVELS. IT IS RECOMMENDED THAT ALL PERSONS EXPOSED TO DOUBLE TO HIGH SOUND PRESSURE LEVELS. IT IS RECOMMENDED THAT ALL PERSONS EXPOSED TO DOUBLE TO HIGH SOUND PRESSURE LEVELS. IT IS RECOMMENDED THAT ALL PERSONS EXPOSED TO DOUBLE TO HIGH SOUND PRESSURE LEVELS. IT IS NOT THAT ALL PERSONS EXPOSED TO DOUBLE TO HIGH SOUND PRESSURE LEVELS. IT IS NOT THAT ALL PERSONS EXPOSED TO DOUBLE TO HIGH SOUND PRESSURE LEVELS. IT IS NOT THAT ALL PERSONS EXPOSED TO DOUBLE TO HIGH SOUND PRESSURE LEVELS. IT IS NOT THAT ALL PERSONS EXPOSED TO DOUBLE TO HIGH SOUND PRESSURE LEVELS. IT IS NOT THAT ALL PERSONS EXPOSED TO DOUBLE TO HIGH SOUND PRESSURE LEVELS. IT IS NOT THAT ALL PERSONS EXPOSED TO DOUBLE TO HIGH SOUND PRESSURE LEVELS. IT IS NOT THAT ALL PERSONS EXPOSED TO DOUBLE TO HIGH SOUND PRESSURE LEVELS. IT IS NOT THAT ALL PERSONS EXPOSED TO DOUBLE TO HIGH SOUND PRESSURE LEVELS. IT IS NOT THAT ALL PERSONS EXPOSED TO DOUBLE TO HIGH SOUND PRESSURE LEVELS. IT IS NOT THAT ALL PERSONS EXPOSED TO HIGH SOUND PRESSURE LEVELS. IT IS NOT THAT ALL PERSONS EXPOSED TO THE PERSONS EXPOSED TO HIGH SOUND PRESSURE LEVELS. IT IS NOT THAT ALL PERSONS EXPOSED TO HIGH SOUND PRESSURE LEVELS. IT IS NOT THAT ALL PERSONS EXPOSED TO HIGH SOUND PRESSURE LEVELS. IT IS NOT THAT ALL PERSONS EXPOSED TO HIGH SOUND PRESSURE LEVELS. IT IS NOT THAT ALL PERSONS EXPOSED TO HIGH SOUND PRESSURE LEVELS. IT IS NOT THAT ALL PERSONS EXPOSED TO HIGH SOUND PRESSURE LEVELS. IT IS NOT THAT ALL PERSONS EXPOSED TO HIGH SOUND PRESSURE LEVELS. IT IS NOT THAT ALL PERSONS EXPOSED TO HIGH SOUND PRESSURE LEVELS. IT

CAUTION

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- All safety and operating instructions should be retained for luture reference.
- Obey all cautions in the operating instructions and on the back of the unit.
- 4. All operating instructions should be followed
- This product should not be used near water, i.e. a bathtub, sink, swimming pool, wet basement, etc.
- This product should be located so that its position does not interfere with its proper ventilation. It should not be placed that against a wall or placed in a built-in enclosure that will impede the flow of cooling air.
- This product should not be placed near a source of heat such as a slove, radiator or another near producing amplifier.
- Never break off the ground pin on the power supply cord.

  For more information on grounding write for our free bookiet "Shock Hazard and Grounding."
- Never supply cords should always be handled carefully. Never walk or place equipment on power supply cords. Periodically check cords for cuts or signs of stress, especially at the plug and the point where the cord exits the unit.
- The power supply cord should be unplugged when the unit is to be unused for long periods of time.
- If this product is to be mounted in an equipment rack, rear support should be provided.
- Metar pasts can be cleaned with a damp rag "the vinyl covering used on some units can be cleaned with a damp rag, or an ammonia based household cleaner if necessary.
- 14. Care should be taken so that objects do not fall and liquids are not spilled into the unit through the ventilation holes or any other openings.
- noise or any orner openings.

  This unit should be checked by a qualified service technicien if

  A. The power supply cord or plug has been damaged.

  B. Anything has fallen or been spilled into the unit.

  C. The unit does not operate correctly.

  D. Trieunit has been dropped or the enclosure damaged.

- The user should notte attempt to service this equipment All service work should be done by a qualified service technician.



Features and specifications subject to change without notice.